TOSHIBA

The power to open people's eyes

28Z07B
32Z17B

colour television

owner's manual

For your safety

This equipment has been designed and manufactured to meet international safety standards but, like any electrical equipment, care must be taken if you are to obtain the best results and safety is to be assured. So, please read the points below for your own safety. They are of a general nature, intended to help you with all your electronic consumer products and some points may not apply to the goods you have just purchased.

Air Circulation…

Leave at least 10cm clearance around the television to allow adequate ventilation. This will prevent the TV from overheating and consequential possible damage to the TV. Dusty places should also be avoided.

Heat Damage…

Damage may occur if you leave the TV in direct sunlight or near a heater. Avoid places subject to extremely high temperatures or humidity, or locations where the temperature is likely to fall below 5°C (41°F).

Mains Supply…

The mains supply required for this equipment is 230v AC 50Hz. Never connect to a DC supply or any other power source. DO ensure that the TV is not standing on the mains lead. DO NOT cut off the mains plug from this equipment, this incorporates a special Radio Interference Filter, the removal of which will impair its performance. In the UK, the fuse fitted in this plug is 13A, and is approved by ASTA or BSI to *BS1362*. It should only be replaced by a correctly rated and approved type and the fuse cover must be refitted. IF IN DOUBT PLEASE CONSULT A COMPETENT ELECTRICIAN.

Do…

DO read the operating instructions before you attempt to use the equipment.

DO ensure that all electrical connections (including the mains plug, extension leads and inter-connections between pieces of equipment) are properly made and in accordance with the manufacturers' instructions. Switch off and withdraw the mains plug before making or changing connections.

DO consult your dealer if you are ever in doubt about the installation, operation or safety of your equipment.

DO be careful with glass panels or doors on equipment.

Do not…

DON'T remove any fixed cover as this may expose dangerous voltages.

DON'T obstruct the ventilation of the equipment, for example, with curtains or soft furnishings. Overheating will cause damage and shorten the life of the equipment.

DON'T allow electrical equipment to be exposed to rain or moisture.

DON'T place hot objects such as candles or nightlights on, or close to, the equipment. High temperatures can melt plastic and lead to fires.

DON'T use makeshift stands and NEVER fix legs with wood screws. To ensure complete safety, always fit the manufacturer's approved stand or legs with the fixings provided according to the instructions.

DON'T listen to headphones at high volume, as such use can permanently damage your hearing.

DON'T leave equipment switched on when it is unattended, unless it is specifically stated that it is designed for unattended operation or has a standby mode. Switch off using the switch on the equipment and make sure your family know how to do this. Special arrangements may need to be made for infirm or handicapped people.

DON'T continue to operate the equipment if you are in any doubt about it working normally, or it is damaged in any way – switch off, withdraw the mains plug and consult your dealer.

ABOVE ALL – NEVER let anyone, especially children, push anything into holes, slots or any other openings in the case – this could result in a fatal electric shock.

NEVER guess or take chances with electrical equipment of any kind – it is better to be safe than sorry.

DO NOT

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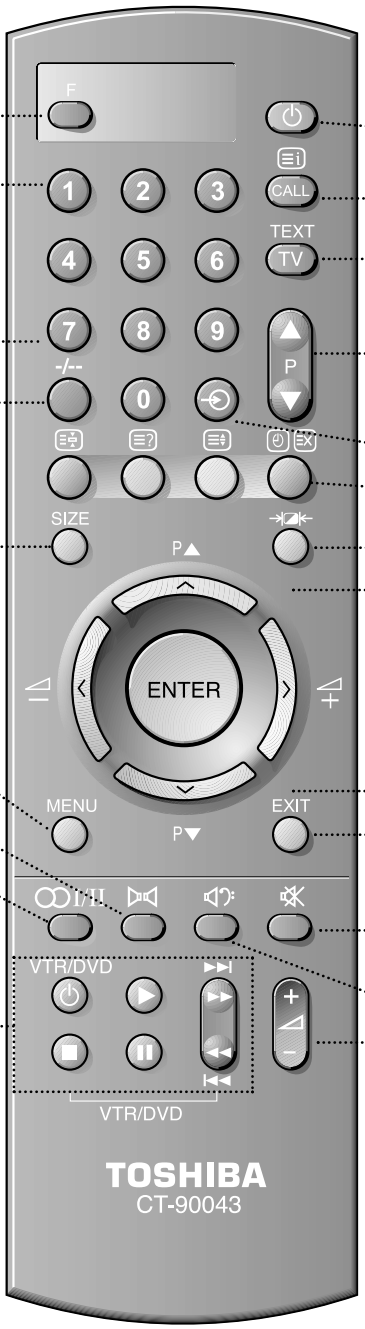
Your new television's remote control

Simple, at-a-glance reference of your remote control's buttons…



F button – use with the colour buttons to select additional teletext features and with the VTR buttons for a **TOSHIBA** *DVD player.*

It also increases the speed of most functions.

Number buttons

1 or 2 digit programme selection

Widescreen format selection

Please see page 24 for the main on-screen Menus

On-screen Menus

Surround Sound

Stereo/bilingual reception

These buttons will operate your **TOSHIBA** VIDEO and DVD. ***For the DVD you must press the F button at the same time…***

to switch ON/OFF, *press*

to STOP, *press*

to PLAY, *press*

to PAUSE, *press*

to FAST FORWARD/SKIP, *press*

to REWIND/SKIP, *press*

For On/Standby mode

To bring up on-screen information and for the teletext initial/index function

To display teletext

To change programme positions and teletext pages

To select input from external sources

Teletext control buttons

Selectable picture preferences

To change programme positions, up and down
To alter the volume
When using menus the arrows move the cursor on the screen up, down, left or right. **ENTER** *to confirm your selection.*

To exit Menus

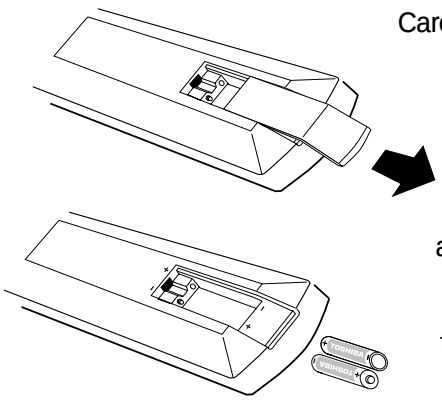
To mute the sound

Bass Boost

To alter the volume

… For quick reference to topics, please see the INDEX at the end of this manual.

The batteries... and the effective range of the remote…



Carefully slide the back cover downwards to reveal the battery compartment and make sure you insert the batteries the right way round.

All Toshiba batteries are Cadmium and Mercury free. Suitable battery types for this remote are R03 or AAA.

Do not throw your old batteries into a fire, dispose of them in a designated disposal area. Do not combine a used, old battery with a new one or mix battery types.

The performance of the remote control will deteriorate beyond a distance of five metres or outside an angle of 30 degrees from the centre of the TV.

Connecting the speakers

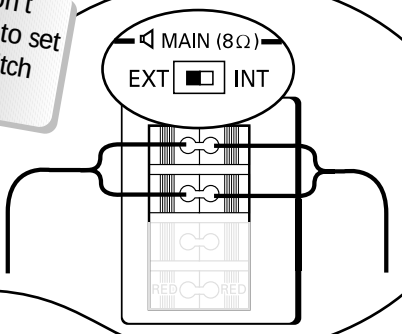
! *WARNING:* do not attempt to share external speakers with your Hi-Fi as serious damage may occur.

When connecting external speakers always make sure that the power is OFF.

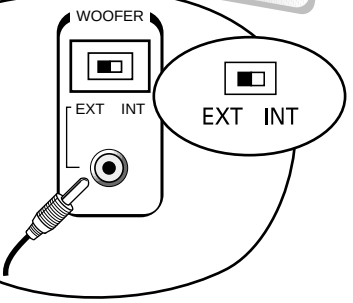
Main Speakers

When connecting external Hi-Fi speakers of your choice, they must be 8 ohm, 10W minimum. These speakers should be positioned either side of the TV and will deliver the left and right sound. Simply press the connector and insert the cable. You must now set the switch to EXT as shown.

*Don't forget to set the switch to **EXT**.*



*Don't forget to set the switch to **EXT**.*



Main Speaker

TV

Main Speaker

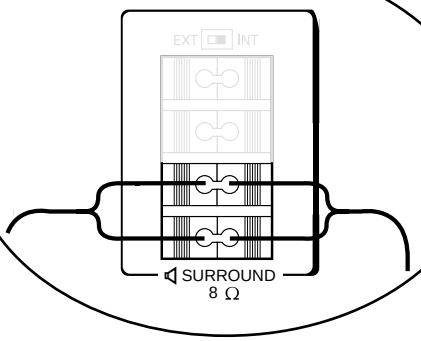
Active Super Woofer

! *Always make sure that the lead with the stripe (or raised edge) is connected to the RED terminal and the other (smooth) lead is connected to the BLACK terminal.*

These are suggested positions only.
Place your speakers to suit and adjust the balance as necessary.

Surround Speaker

Surround Speaker



In order to enjoy the sensations of Surround Sound TV it is necessary to connect the two Surround Speakers. These speakers and cables are included with the TV and should be sited in line with the normal viewing position.
To connect the Surround Speakers simply press the connector and insert the cable.

Surround Speakers

Connecting and turning on your new TV

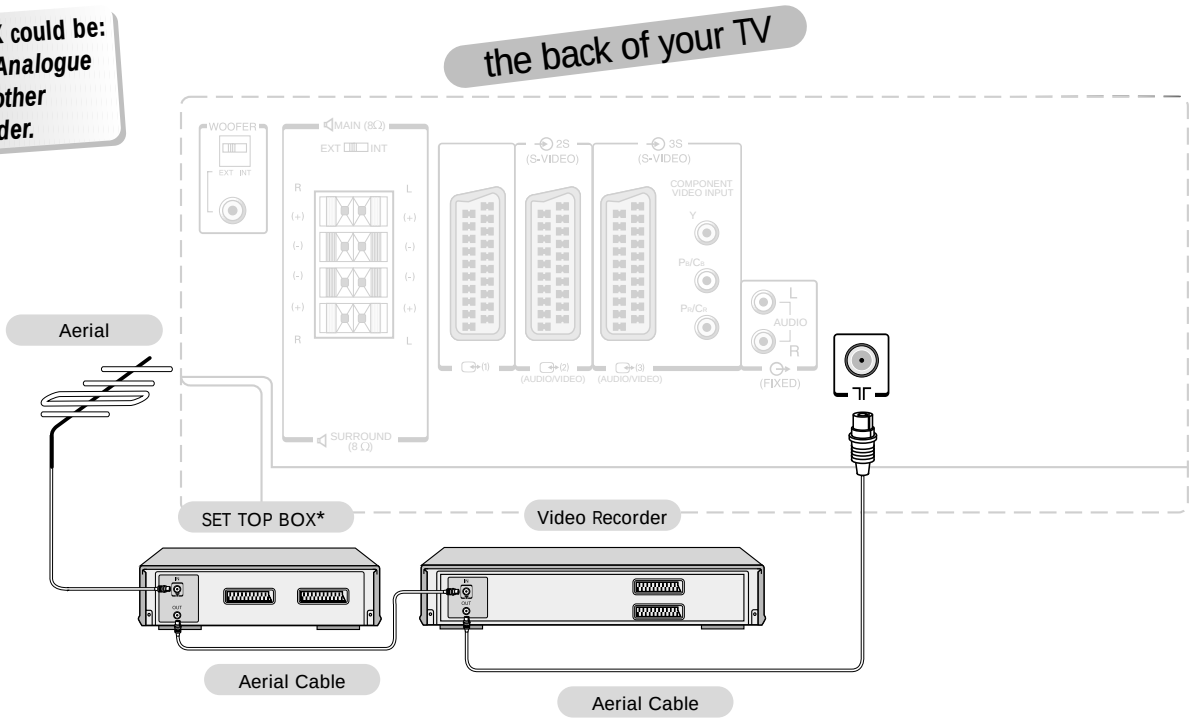
To conserve energy it is best to turn your TV off and not to leave it in Standby, unless the timer has been set.

The TV back connections…

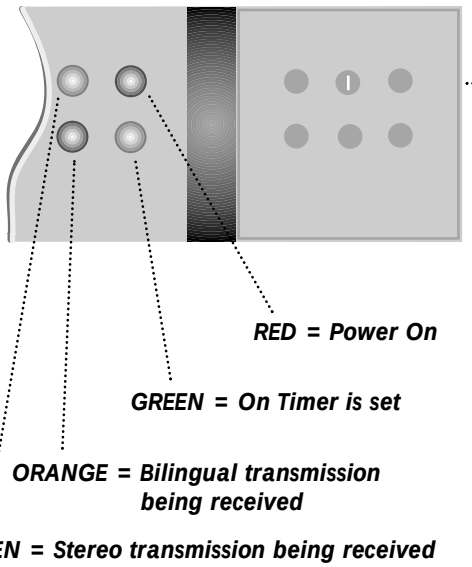
Connect the aerial to the socket on the rear of the television. If you use a Set Top Box and/or a video recorder it is essential that the aerial cable is connected through the Set Top Box and/or through the video recorder to the television.

DO NOT CONNECT SCART LEADS UNTIL THE TELEVISION IS FULLY TUNED.

***a SET TOP BOX could be: Digital Satellite, Analogue Satellite, or any other compatible decoder.**



…and switching your new TV on…

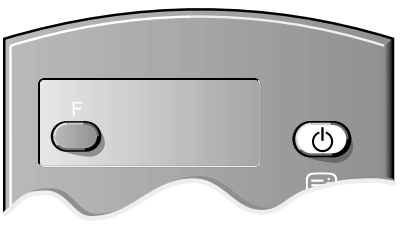

RED = Power On
GREEN = On Timer is set
ORANGE = Bilingual transmission being received
GREEN = Stereo transmission being received

On the front of the TV…

If the red power-on light is unlit, press the POWER button on the front of the TV to switch the set on and then press a number button on the remote control to see the screen.

…and with the remote control:

Press the Standby Button ⏻: This allows you to put the set into standby mode when leaving the TV unattended for short periods of time. To return to TV mode press the ⏻ button, or any of the numbered buttons on the remote control. The picture may take a few seconds to appear.

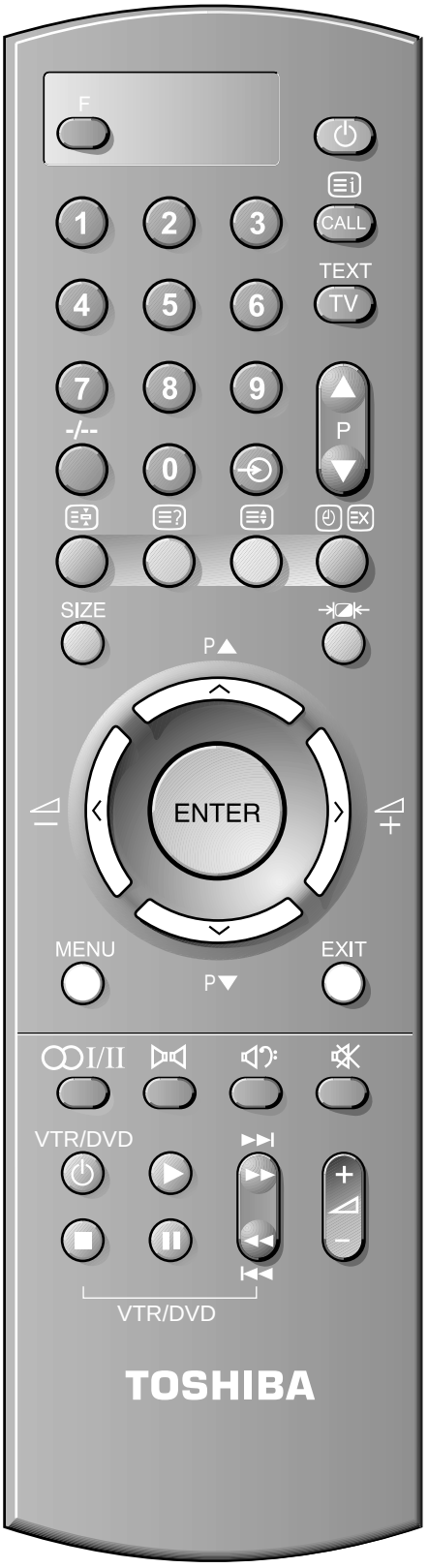


To conserve energy, do not leave the set in Standby for long periods of time.

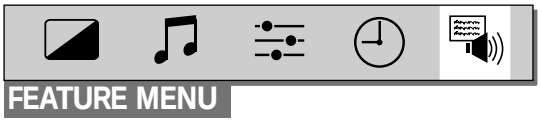
Choosing the language

The on-screen menus can be viewed in different languages.

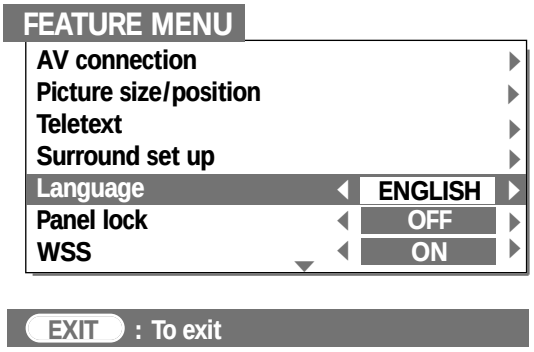
Choosing your language



1 Press the **MENU** button, and use the ❯ button to select **FEATURE MENU** from the top bar.



2 Now repeatedly press the ❯ button until ***Language*** is highlighted in the **FEATURE MENU**'s options.



3 Press the ❮ or ❯ button to view the language options available. As you view each language, the wording on the menus will automatically change for you.

4 To select your chosen language, simply view it on the screen and then press the **EXIT** button. All the on-screen displays will now all appear in your chosen language.

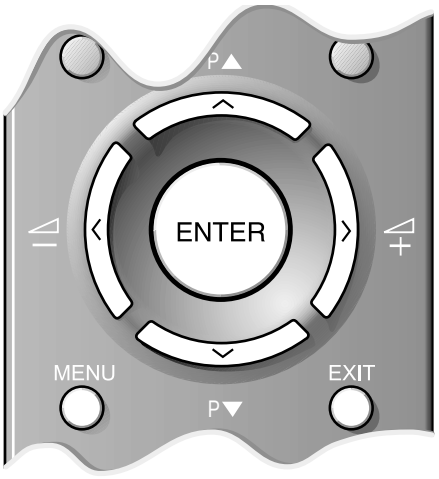
Now you can run ***Auto tune***....

Which is explained on the next page...

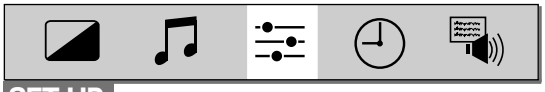
Auto tune

Before running ***Auto tune*** turn on your Set Top Box and tune to a main channel. Also turn on the video recorder and set it to Standby – this will enable your television to identify and allocate the necessary programme positions.

You can now run Auto tune...



1 Press the **MENU** button, and then the ❮ or ❯ button to select the **SET UP** option from the top bar.



SET UP

2 Press the ❯ button to highlight ***Auto tune*** and ❯ to select.

SET UP

Auto tune	▶
Manual tune	▶
Programme swap	▶
Manual fine tuning	▶
Programme skip	◀ OFF ▶

EXIT : To exit

You will be informed that all previous settings will be lost.

3 Press the **ENTER** button on the remote control to begin the search for available stations.

▶▶▶▶▶ will flash and each station found will appear in succession on the screen.

AUTO TUNE

SEARCHING

▶▶▶▶▶

Channel : 21

Station : -------

EXIT : To exit

Allow the television to complete the search.

*If no station name appears, it can be put in manually, see **Step 5** of **Manual Tune**.*

When the search is complete, the screen will display a list of all the available BBC1 signals.

AUTO TUNE

Prog.	Station	Channel
1	BBC1	22
	BBC1	39

ENTER : To store

EXIT : To exit

*...Your TV may display different **Channel** numbers...*

4 If more than one is shown press the ❯ or ❮ button to highlight and view the choices.

Choose the best picture and sound.

5 Press the **ENTER** button to store BBC1 on programme position 1.

***Note:** You can only choose one BBC1 station at this stage.*

Position 2 will appear showing the BBC2 choices. Repeat the steps above to allocate the required signal.

6 Repeat for all the remaining programme positions you wish to tune including a Set Top Box, if connected. *If there are no signals for any programme positions,* simply press the **ENTER** button to move on to the next one.

7 Press **EXIT** to finish and one of the numbered buttons to view TV.

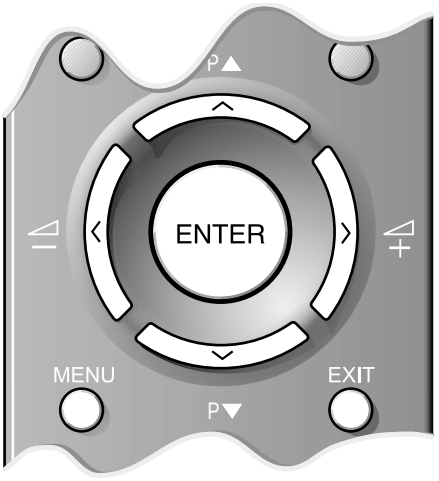
! YOU MAY NOW CONNECT YOUR SCART LEADS see page 23...

*Manual fine tuning should not require alteration unless you experience interference or a weak signal – see **Questions and Answers**, starting on page 25.*

Manually tuning your TV

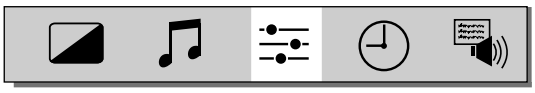
As an alternative to ***Auto tune***, you can tune-in your Toshiba television manually using ***Manual tune***. For example, if you are unable to connect the TV to your video with a Scart lead.

Manual tune



If you cannot connect your television to the video recorder using a Scart lead you will need to allocate a programme position on the television for the video recorder. Insert a pre-recorded tape and press PLAY on the remote control, then Manual tune...

1 From the top menu bar select **SET UP** and with the ❯ button select ***Manual tune***.



SET UP

Auto tune	▸
Manual tune	▸
Programme swap	▸
Manual fine tuning	▸
Programme skip	◂ OFF ▸

EXIT : To exit

2 Press the ❯ button twice to start the search.

MANUAL TUNE

◂ Back	
Search	◂ ❯❯❯ ▸
Programme no.	◂ 01 ▸
Channel	◂ 24 ▸
Station	◂ -------- ▸

ENTER : To store
EXIT : To exit

3 ❯❯❯ (***Search***) will flash and the television will show the channel numbers whilst the search is progressing.

On finding a station it will show on the television.

4 If you *do not* wish to store it, press the ❯ button to continue the search. If you *do* wish to store it press ❯ to highlight the ***Programme no.*** and if necessary, press ❮ or ❯ to select the number you wish to store it on (we suggest 0 for the video recorder).

5 Press ❯ to highlight ***Station*** and ❮ or ❯ to select a ***Station*** name if required.

6 Press **ENTER** if you wish to store the broadcast displayed.

7 To repeat the process, highlight ***Search*** and press the ❯ button to look for the next station.

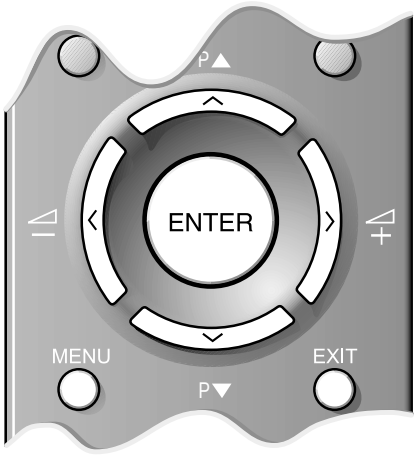
Press **EXIT** when you have finished.

PLEASE NOTE This TV has direct channel entry if the channel numbers are known.

Select the ***Manual tune*** screen.
Enter the required programme position, then enter the appropriate channel number.
Select the station name and press **ENTER** to store.

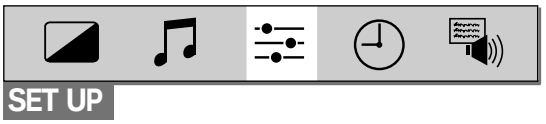
Swapping programme positions and programme skip

After tuning if you want to swap the position of certain programmes you can. ***Program swap*** is an easy way of storing each channel on the programme position of your choice. ***Program skip*** stops the viewing of certain channels.

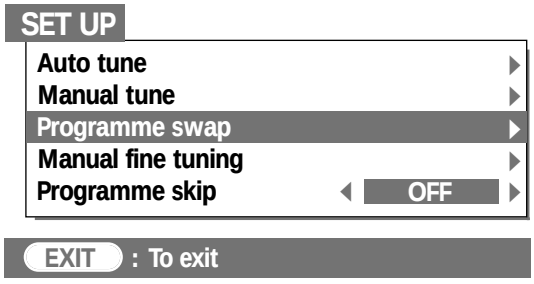


To swap programme positions

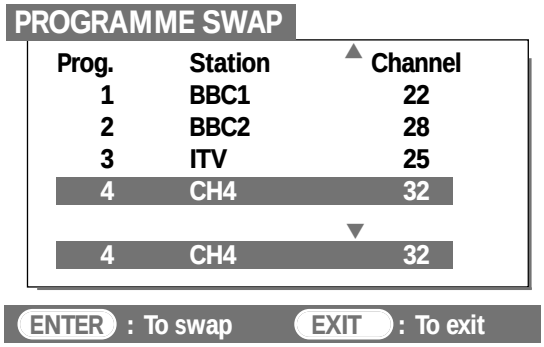
1 Press the **MENU** button and then the ❮ or ❯ button to select the **SET UP** option from the top bar.



2 Press ❯ to highlight ***Programme swap*** and ❯ to select.



3 The list of stations is now showing. With the ❯ or ❮ button highlight the station you want to *move* and press **ENTER** to select. The station you are moving will show on the bar at the bottom.



4 With the ❯ or ❮ button again, move through the list to your *preferred* position.

5 Press **ENTER** again. You will see that the programme positions have now been swapped.

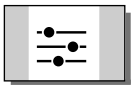
6 Repeat as necessary and then press **EXIT**.

Skipping programmes

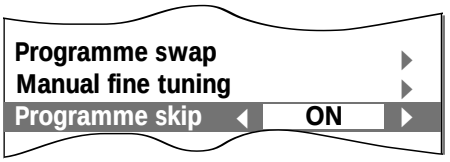
To prevent certain programmes from being viewed, for example, a certain film by your children whilst your are out for the evening, you can skip the programme position and take the remote control with you. The television will still function as normal using the controls on the front of it, but the set will not show the skipped programme position.

1 Using the remote, select the channel to be skipped.

2 Select the **SET UP** menu, and then ***Programme skip***.



3 Press ❯ to turn ***Programme skip*** **ON**.



4 Then press the **EXIT** button.

5 It is necessary to repeat from ***step 1*** for all the channels to be skipped. The ***skipped*** channels *cannot* now be selected by the ▼ **P** ▲ buttons or by the controls on the front of the TV *but can still be accessed by the number buttons on the remote control*.

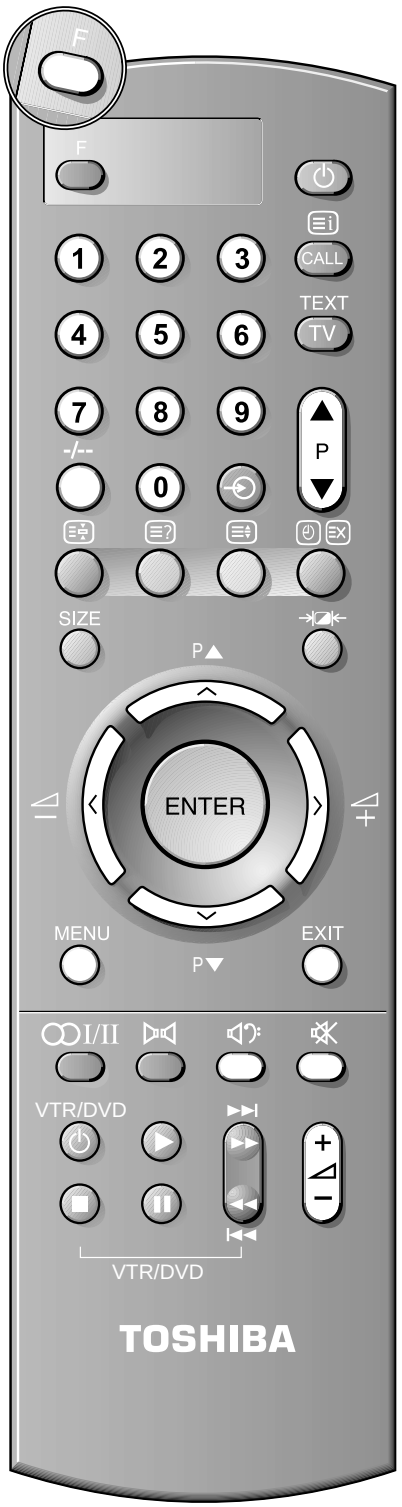
An ✱ on the screen indicates a skipped programme position.

6 To turn ***Programme skip*** **OFF**, repeat the procedure on the chosen channel.

...Remember... each channel has to be INDIVIDUALLY selected and set with *Programme skip* ON or OFF.

General controls

Pressing the F button at the same time will speed up most functions...



When an active Super Woofer is connected the button will control it.

Selecting and changing programme position

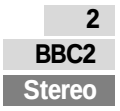
Enter the desired programme position number using the numbered buttons on the remote control.

For programme positions *below* 10, press the -/-- button to select — on the screen then enter the desired programme position number.

For programme positions *above* 9, press the -/-- button to select — — then enter the desired two digit programme position number.

You can also change the programme position by using the ▼ **P** ▲ button or the ❯ and ❮ buttons.

The programme position will be displayed on the screen with the Stereo/Mono indicator, described on page 20.



Sound control

Volume

Press the **–** **+** button or the ❮ and ❯ buttons to adjust the volume.

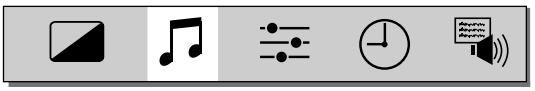
Sound Mute

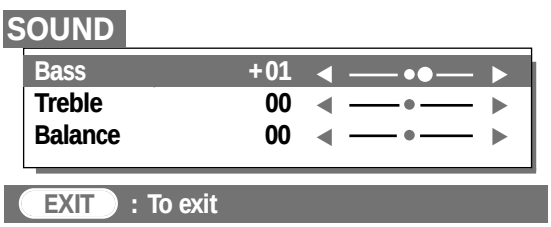
Press the button to turn the sound off. Press it again and the sound will return.

Bass Boost – to enhance the depth of sound

Press the button repeatedly to turn the ***Bass boost*** on and off. Press the ❮ or ❯ button to adjust the effect.

Bass, treble and balance adjustments



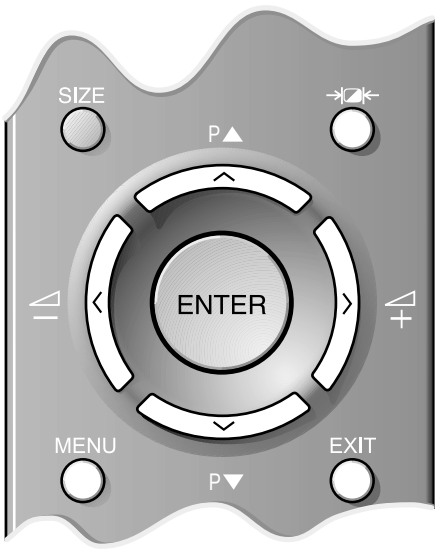


Press the **MENU** button on the remote control, and the ❮ or ❯ button to select the **SOUND** option from the top bar.

Press the ❯ button to highlight ***Bass, Treble*** or ***Balance*** from the **SOUND** menu and then the ❮ or ❯ button to change the setting.

Picture adjustments

This television offers you the choice of personalising the picture style to suit your own preferences.

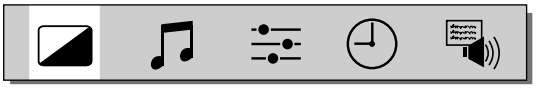


Picture preferences

1 By pressing the ⇥◪⇤ button you can view the different picture styles available:

Picture mode-1 to ***3*** for preset options and, ***Picture mode-M*** is for your own settings:

2 So, to set your own, choose **PICTURE** from the top menu bar.



PICTURE

Contrast	100	◄ ——•—— ►
Brightness	50	◄ ——•—— ►
Colour	50	◄ ——•—— ►
Tint	00	◄ ——•—— ►
Sharpness	00	◄ ——•—— ►
NR	ON	◄ ►

EXIT : To exit

Within this **PICTURE** menu you have the options to adjust the ***Contrast***, ***Brightness***, ***Colour***, ***Tint*** and ***Sharpness***.

3 Using the ❮ or ❯ buttons alter to suit your taste.

The Tint can only be adjusted on a signal from an NTSC video recorder or DVD player when the television is in AUTO or NTSC colour mode.

NR – Noise Reduction

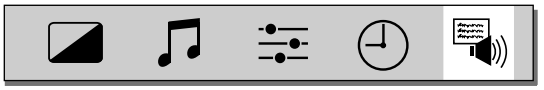
NR enables you to 'soften' the screen representation of a weak signal.

1 Select **NR** from the **PICTURE** menu. Select between **ON** and **OFF** to obtain the best picture. The differences may not always be noticeable.

Blue Screen

When no signal is being received, the TV will switch the screen to blue. After 20 minutes the TV will switch to Standby mode.

1 In the **FEATURE MENU** select ***Blue screen*** **ON** or **OFF**.



FEATURE MENU

AV connection	►
Picture size/position	►
Teletext	►
Surround set up	►
Language	◄ ENGLISH ►
Panel lock	◄ OFF ►
WSS	◄ ON ►

EXIT : To exit

...press the ⌄ button to access the second part of the FEATURE MENU...

Blue screen	◄ ON ►

EXIT : To exit

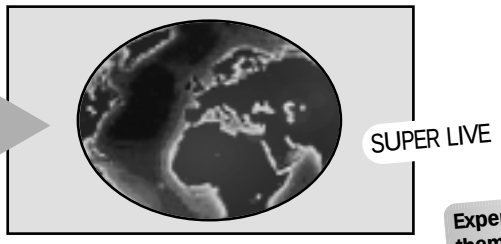
Widescreen viewing

This set is capable of showing broadcasts in a number of formats. Depending on the type of broadcast being transmitted you may select between ***SUPER LIVE, CINEMA, SUBTITLE, WIDE*** and ***4:3***.

Press the SIZE button repeatedly to view the options available.

SUPER LIVE

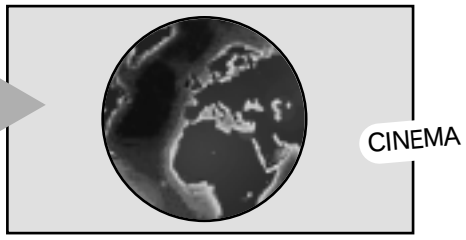
This setting will enlarge the image to fit the screen by stretching the image horizontally, holding the correct proportions at the centre of the image.



Experiment with them all until you find a style that suits you...

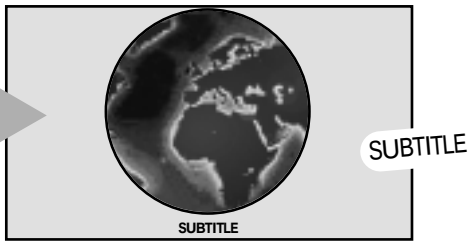
CINEMA

When watching 'letterbox format' films/video tapes, this setting will eliminate or reduce the black bars at the top and bottom of the screen by zooming in and selecting the image without distortion.



SUBTITLE

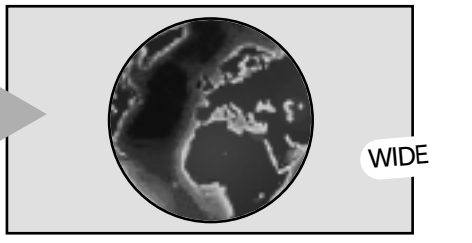
When subtitles are included on a letterbox format broadcast, this setting will raise the picture to ensure that all the text is displayed.



! ***Whenever the MENU button is pressed the picture size setting may change while the menus are ON the screen. This is to ensure the menus do not overlap the edges of the viewable area.***

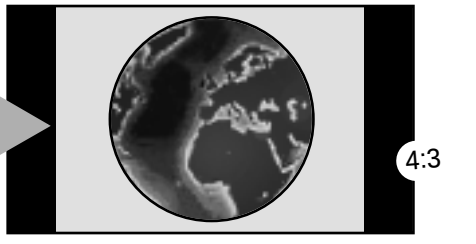
WIDE

Use this setting when watching a widescreen DVD, widescreen video tape or a 16:9 broadcast (when available). Due to the range of widescreen formats (16:9, 14:9, 20:9 etc.) you may see black bars on the top and bottom of the screen.



4:3

Use this setting to view a true 4:3 broadcast.

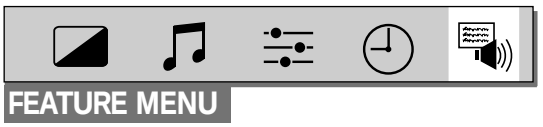


Picture size/position and Widescreen Signalling

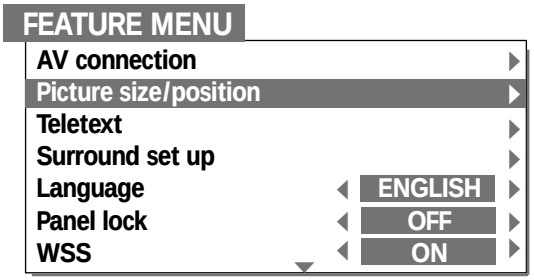
Adjustment to the horizontal and vertical position and height of the picture may be made to suit your viewing preferences.

Picture size/position settings

1 Press the **MENU** button, and use the ❯ button to select **FEATURE MENU.**

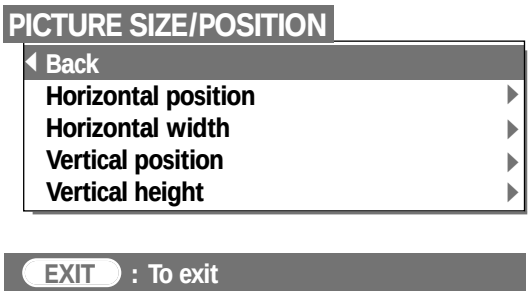


2 Now repeatedly press the ❯ button until ***Picture size/position*** is highlighted.



3 Press the ❯ button to view the options available and adjust the settings, depending upon the picture type (***SUPER LIVE, CINEMA*** etc...) selected previously.

In ***SUPER LIVE***:

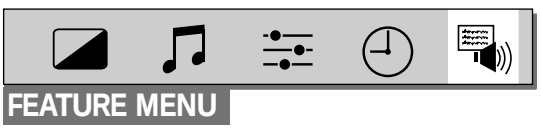


! ***The options available to you when in the PICTURE SIZE/POSITION screen will vary depending upon the widescreen format you have previously chosen, as detailed on page 13.***

WSS – Widescreen Signalling

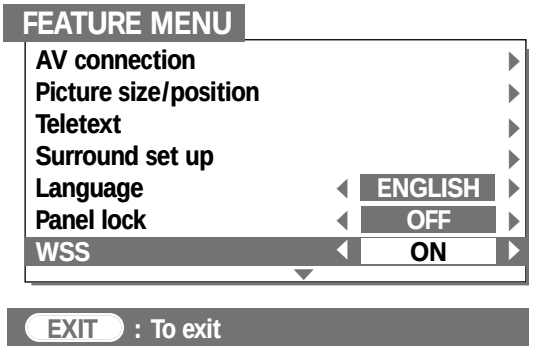
When this TV receives a true Widescreen picture and *WSS* is ON, it will automatically be displayed in Widescreen format, irrespective of the TV's previous setting.

1 Press the **MENU** button, and use the ❯ button to select the **FEATURE MENU.**



2 Use ❯ to move down to ***WSS***.

3 Using the ❮ or ❯ button turn ***WSS*** **ON** or **OFF**.

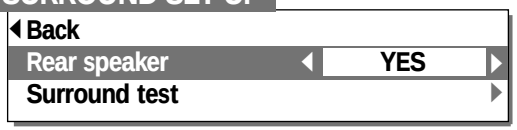


Dolby Pro Logic

Dolby Pro Logic – available on many TV broadcasts in addition to video tapes. Uses a combination of 4 speaker channels – front-left, centre, front-right and rear. If external front speakers are not connected, these channels will be delivered through the speakers in the TV.

Dolby Pro Logic

SURROUND SET UP



EXIT : To exit

1 From the **FEATURE MENU** select ***Surround set up***.

2 Using the ❮ or ❯ button turn ***Rear speaker*** to **YES**.

! ***YES** in the **Rear speaker** option must be chosen for the **Test Mode** below to function…*

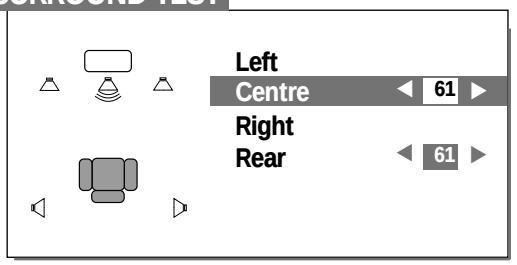
Surround Test Mode

! **Remember…** Check that Rear speakers are connected and the ***Rear speaker*** option in the ***Surround set up*** menu is set to **YES**.

1 Sit in your usual viewing position.

2 Press the ▷◁ button to bring up the **SURROUND** menu. With ***Dolby Pro Logic*** selected, **EXIT** and go to the **FEATURE MENU** to select **SURROUND TEST** from the ***Surround set up*** menu.

SURROUND TEST



EXIT : To exit

Whilst each speaker is highlighted, use the ❮ and ❯ buttons to adjust.

! *If you cannot connect rear speakers – select Dolby 3 Stereo.*

The TEST will play a 'white noise' through each speaker in turn. The display will show you which speaker is in play, adjustments may be made whilst it is highlighted.

! *Inserting the headphone jack will mute the sound from all speakers and deliver a normal stereo left and right signal. There are no Dolby Pro Logic or Surround effects available when using headphones.*

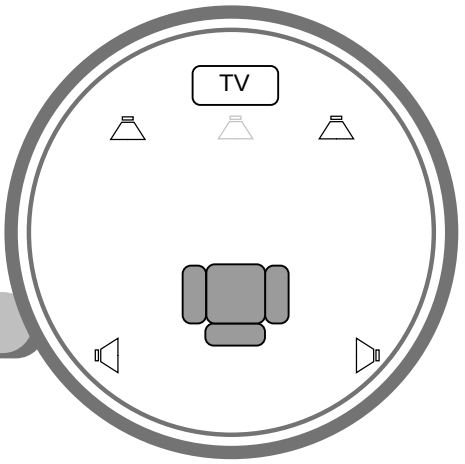
Digital Surround Processor

Please note: **Hall**, **Theatre**, **Disco** and **Stadium** effects are only available on a stereo signal. **Pseudo surround** works on both mono and stereo signals. The **Digital Surround** mode works equally well with either internal or external front speakers connected. All of the Digital surround modes are adjustable, the method of adjustment being described below, is the same for all the Digital Surround effects.

1. Press the ▷◁ button to bring up the **SURROUND** menu.
2. Press the ∧ or ∨ button repeatedly to select the digital mode which best suits the type of broadcast.
3. Then press the 〉 button to access the adjustments screen and with the ∧, ∨, 〈 and 〉 buttons, adjust the levels as required.

…if you choose to adjust one **Digital Surround** *mode, you will not effect the others.*

SURROUND SOUND uses a combination of 4 speakers – front-left, front-right and rear speakers.



Surround Sound Features

Surround Sound: Hall
To reproduce in the living room the surround effects similar to those experienced in a large concert hall. *Ideal for TV programmes or music video tapes.*

Surround Sound: Pseudo
To create a synthetic sound effect for movies and TV shows recorded in mono.

Surround Sound: Theatre
To reproduce the surround effects similar to those experienced in a movie theatre filled with a rich warm sound. *Ideal for movies with stereo sound.*

Surround Sound: Stadium
To reproduce the surround effects similar to those experienced in a large football or baseball stadium packed for a live game.

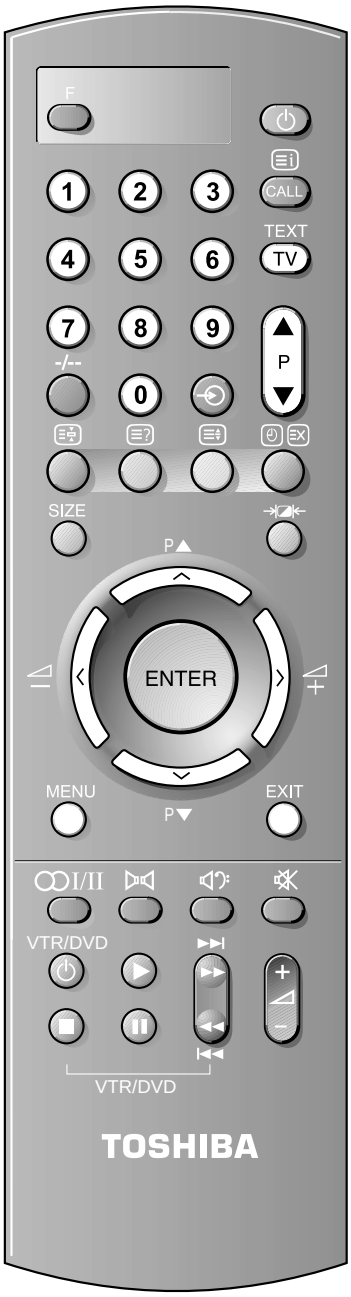
Surround Sound: Disco
To create the atmosphere of a room so full of music that it seems to engulf the listener. *An ideal sound mode for listening to pop videos.*

Surround Sound: Off
Uses only the front left and right speakers. This mode can be selected for watching news broadcasts and the like which require no special sound features.

Teletext – setting up

This TV offers two ways of viewing text – ***AUTO*** and ***LIST*** which are explained on the next page.

Viewing mode and general information

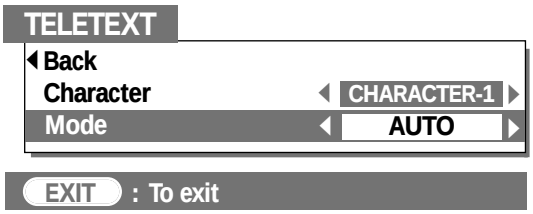


Selecting the mode

*Before using teletext you can choose whether you want to use the **LIST** or **AUTO** mode, explained on the next page, in which to view the service.*

1 From the **FEATURE** menu, use the ❯ button to highlight ***Teletext*** and then the ❯ button to select.

2 Use the ❯ button highlight ***Mode***.



3 With the ❮ or ❯ button choose ***AUTO*** or ***LIST***.

4 Press **EXIT** to finish.

> **!** ***On this TV CHARACTER-1 and CHARACTER-2 will give the same teletext display.***

About teletext

The TEXT TV button:

TEXT TV Pressing the **TEXT TV** button once will bring up the teletext screen. Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You need to return to normal viewing if you wish to change channels.

When you first press the **TEXT TV** button to access the text service, the first page you see will be the *initial* page.

In ***Auto*** mode this displays the main subjects available and their relevant page numbers.

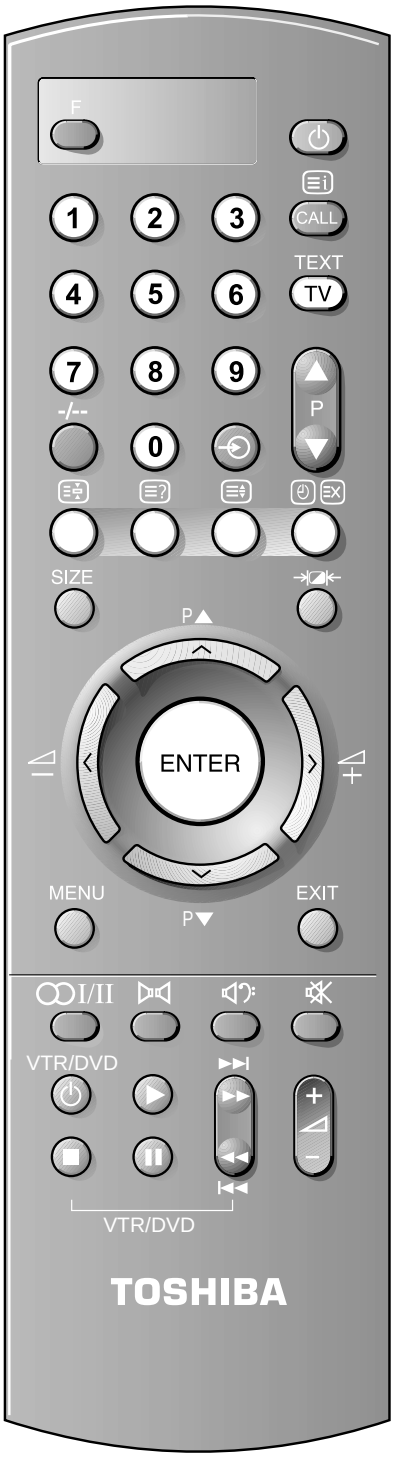
In ***List*** mode you will see your chosen ***INITIAL*** page (explained on the next page).

To access any teletext page, enter the 3 digit page number, using the numbered buttons on the remote control, *e.g. 430*.

To advance to the next page of teletext, press the **P ▲** button, to go back to the previous page press the **P ▼** button.

Teletext continued
– *Auto* and *List* modes

Selecting pages



There are two ***Modes***: ***Auto*** will display **FASTEXT**, if available. ***List*** will display your four favourite pages. In either mode, as an alternative to the coloured buttons you can access a page by entering a 3-digit number, using the buttons on the remote control.

Auto

Press the **TEXT TV** button to access teletext.

In ***Auto*** mode, if **FASTEXT**, *is* available, you will see four coloured titles at the base of the screen.

To access one of the four given subjects, press the relevant coloured button on the remote control, corresponding to the title.

For further information on your particular text system(s), see the broadcast teletext index page or, consult your local Toshiba dealer.

List

In ***LIST*** mode, the four choices at the bottom of the screen are now numbers – e.g. 100, 200, 300 and 400, which have been programmed into the TV's memory. They will flash until the pages have been found.

To view these pages use the coloured prompt buttons *e.g.* press the **GREEN** button to view page 200.

If you want to *change* these stored pages press the coloured button for the colour you want to change, *e.g.* **GREEN** and enter the 3 digit number. This number will change in the top left of the screen and in the coloured highlight.

Now press and hold the **ENTER** button to store your choice. The bottom of the screen will turn white.

If you do not press **ENTER** to confirm your change, you will not have stored your choice and it will be forgotten when you leave the teletext screen.

Whenever you press **ENTER** *all* **four** *pages numbers showing along the bottom will be stored and the previous ones will be lost.*

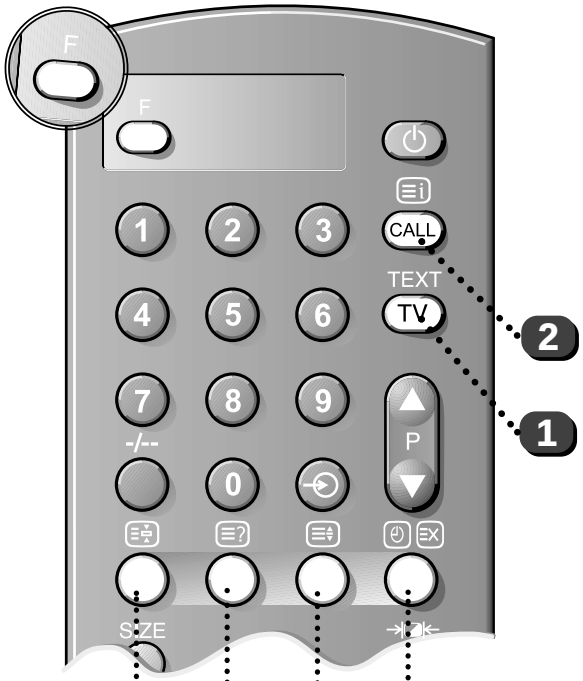
You may view other pages by simply entering the 3 digit page number – but DO NOT press **ENTER** or you will lose the favourite already stored.

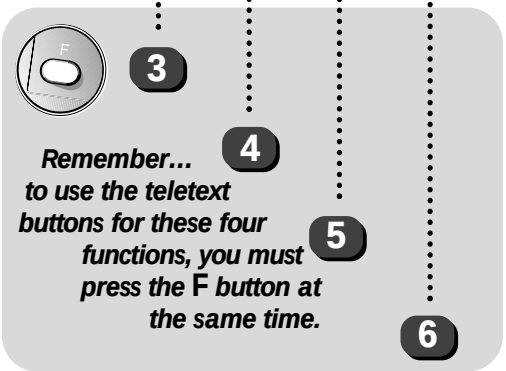
The rest of the text control buttons are explained on the next page...

Teletext continued – control buttons

Now you have set up teletext, below is a guide to the remote control teletext buttons and their functions.

Using the buttons on the remote control





Remember... to use the teletext buttons for these four functions, you must press the F button at the same time.

1 *To display a page of teletext:* TEXT TV

Press the **TEXT TV** button to display teletext**.** Press again to superimpose the teletext over a normal broadcast picture. Press again to return to normal TV mode. You cannot change programmes until you return to normal TV.

2 *To display an index/initial page:*

In *AUTO* mode
Press the button to access index pages. The one displayed is dependant on the broadcaster.

In *LIST* mode, press the button to return to your first chosen page, i.e. the red choice at the bottom of the screen.

3 *To hold a wanted page:* F *and*

At times it is convenient to hold a page of teletext. Press the **F** and the buttons and the word **HOLD** will appear in the top left of the screen. Press again to release.

4 *To reveal concealed text:* F *and*

Some pages cover topics such as quizzes and jokes. To discover the solutions press the **F** and the buttons.

5 *To enlarge the teletext display size:* F *and*

Press the **F** and the buttons once to enlarge the top half of the page, press again to enlarge the bottom half of the page. Press again to revert to the normal size.

6 *To view a TV programme whilst waiting for your text page:* F *and*

When in teletext mode, if a page selection is made and then the **F** and the buttons are pressed, a normal picture will be displayed. The TV will indicate when the page is present by displaying the title bar of the text page at the top of the screen. Press the **TEXT TV** button to view the page.

To display news flashes:
To view news flashes as they are broadcast, select the news flash page for the particular teletext service (see the index page of teletext service). Press the **F** and the button. The news flashes will be displayed as and when they are broadcast. Press the **F** and the buttons to cancel the display.

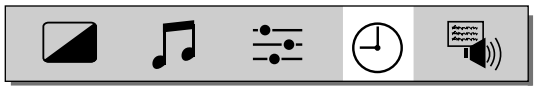
You must cancel the news flash page before changing channels.

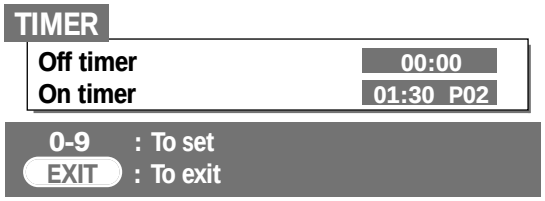
The timer, time display, panel lock and stereo/bilingual transmissions

The Timer

You can tell the TV to turn itself ON or OFF after a certain time.

1 Select the ***TIMER*** option from the top menu bar.





2 Select the ***On timer*** (or the ***Off timer***). If, for example, you want the TV to turn ON (or OFF) in one and a half hours time, enter 01:30 using the numbered buttons on the remote control.

3 When setting the ***On timer***, you must enter the programme position number you want to watch. You must put the set into Standby mode by pressing the ⏻ button.

Any equipment connected with Scart leads must also be put into Standby mode to prevent them being displayed when the timer switches on.

When the ***On timer*** has been set, the GREEN On timer indicator on the front of the TV will be lit (see page 6).

If the **On timer** *has been set, you do not have to wait to watch the television. You can bring the set back to life by pressing the ⏻ button. However, the GREEN timer light will stay on until the set time period has passed, at which point the TV will go to the chosen channel.*

4 To cancel the ***On timer***, enter zero in each position including the programme position.

The Time Display

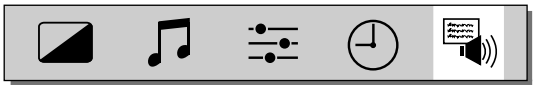
The time display facility allows you to see the current time on the TV screen.

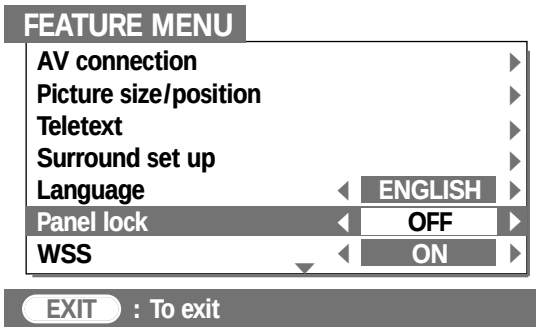
If you press the **F** button and the ⏲ button on the remote control whilst watching a normal TV broadcast you will see a time display from the broadcaster.
It will remain on the screen for about 5 seconds.

Panel Lock

Panel lock ***allows you to disable the buttons on the front of the TV set. You can though, still use all of the buttons on the remote control.***

1 From the **FEATURE MENU** select ***Panel lock*** and choose **ON** or **OFF** with the ❮ or ❯ buttons.





When Panel lock is ON, you will be reminded on the screen when you press any of the front panel buttons. Once the set has been switched off it can ONLY be brought out of standby using the remote control.

Stereo and Bilingual transmissions…

If stereo or dual language broadcasts are transmitted the lights on the front of the TV will be lit. The word *Stereo* or *Dual* will appear on the screen, disappearing after a few seconds.

NICAM broadcasts can be in either Stereo or Mono.

Stereo…

The display will reappear each time you change programme positions, provided that the broadcast is in stereo. If the broadcast is *not* in stereo the word Mono will appear.

1 Choose the required programme number.

2 Press the ∞ I/II button repeatedly, to select between ***Stereo*** and ***Mono***.

…and Bilingual

Bilingual transmissions are rare.
If they *are* transmitted the word ***Dual*** will display.

1 If the word ***Dual*** *does* appear press the ∞ I/II button to select between ***Dual 1***, ***Dual 2*** and ***mono***.

AV connections and input selection

You must define your INPUT and OUTPUT sockets so that your television recognises connected equipment.

...Please see page 23 for a clear view of the back connection recommendations...

Most video recorders and Set Top Box receivers send a signal through the **Scart lead** to switch the TV to the correct *Input* socket. Alternatively you may select it with the external source selection button ⊕ on the remote control. *Equipment connected to the COMPONENT VIDEO INPUT must be selected by pressing the ⊕ button.*

Input Selection

Using the Input Selection if the TV does not switch over automatically.

1. Press the ⊕ button to bring up **EXT 1** on the screen. This will display the signal coming in through *Scart 1*.
2. Press the ⊕ button again to select the equipment connected to *Scart 2* (**EXT 2**).
3. And press the ⊕ button again for **EXT 3** (*Scart 3* or COMPONENT VIDEO INPUT, on the back of the TV or ⊕3, on the front of the TV).

An S in the display *e.g. EXT 2S*, indicates the input is set for an S-Video signal. *EXT 3C* indicates that it is set for a DVD component video input.

4. To return to TV mode simply press one of the numbered buttons on the remote control. To view the external equipment once again, simply press the ⊕ button until you see your external source.

Selecting the INPUT Signal

This feature allows you to specifiy the type of signal going into **Scarts 2** or **3** on the back of the television and the sockets on the front (Input 3). **AV** is the most common and comes from standard video recorders and Set Top Boxes whereas **S-VIDEO** signals are less common. (Please refer to the manufacturer's specification.) **COMP. V** enables the television to receive a component video input, e.g. from a DVD player.

1. From the **FEATURE MENU** select ***AV connection*** and with ❮ and ❯ buttons select either **AV** or **S-VIDEO** as the required ***Input*** for ***EXT 2*** and **AV**, **S-VIDEO** or **COMP. V** for ***EXT 3***.

AV CONNECTION

Back	
EXT2 input	AV
EXT3 input	S-VIDEO
EXT2 output	EXT 1

Selecting the OUTPUT signal for Scart 2

This feature enables you to select the source to output from Scart 2. *e.g.* If you connect a stereo Set Top Box receiver to Scart 1 and a stereo video recorder to Scart 2, and select **EXT 1** as the ***EXT 2 output*** (*i.e.* you will output the signal received through Scart 1 directly out to Scart 2), you will be able to record the stereo Set Top Box transmission in stereo.

1. Again, from the **FEATURE MENU** select ***AV connection***.
2. Using the ❮ or ❯ button change the ***EXT 2 output*** option to either **MONITOR, TV, EXT 1** or **EXT 3**.

MONITOR = The picture on screen

TV = The last television programme selection.

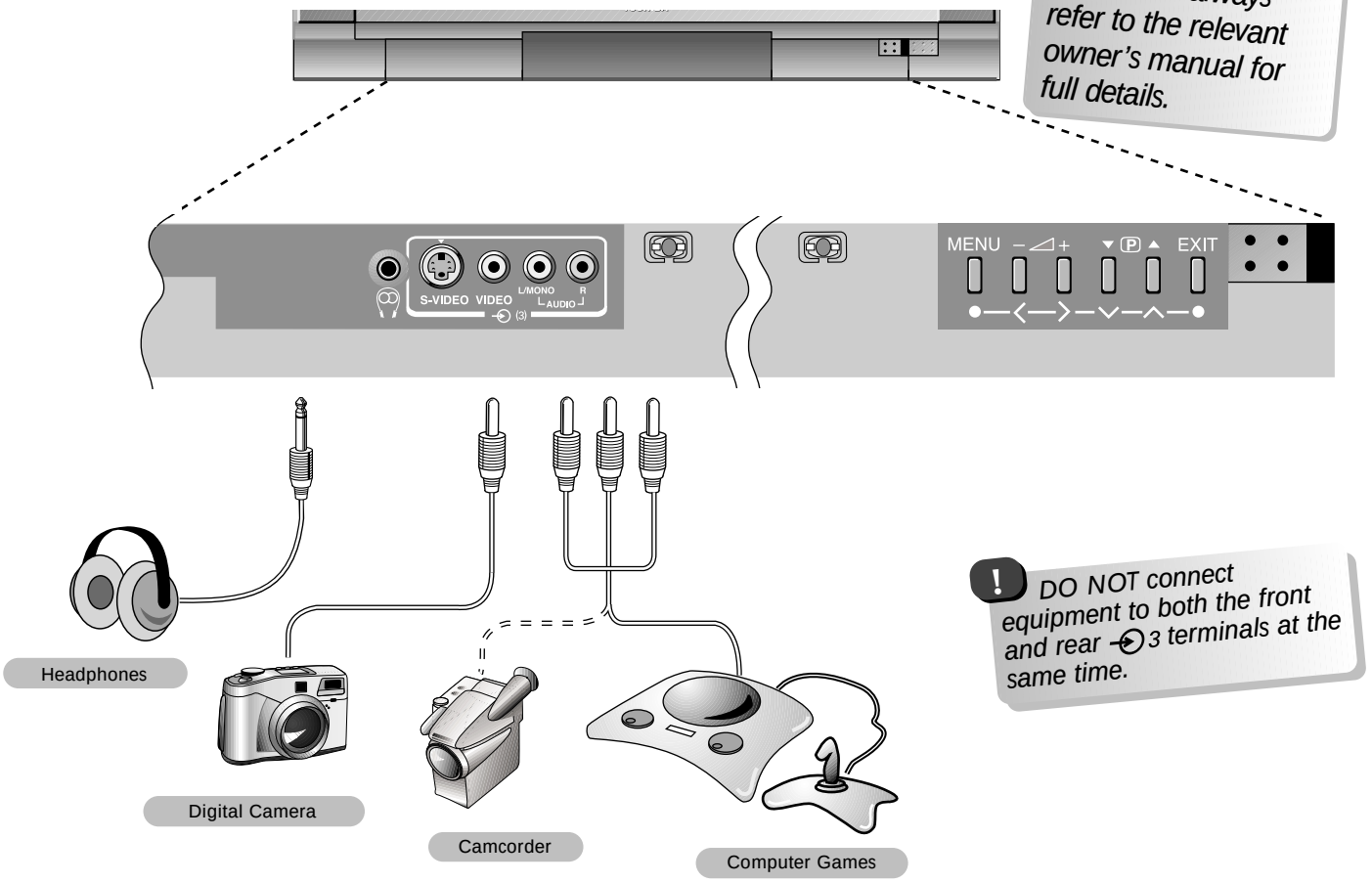
EXT 1 or **3** = The picture from equipment connected to ***EXT 1*** or ***EXT 3*** sockets. (**EXT 3** is not available if **COMP. V** is chosen as the **EXT 3** input.)

Front connections and controls

You can connect a wide variety of external equipment via the *sockets* located behind the flap on the front of the TV. Press the right hand side of the flap to open it.

Front connections

! When connecting equipment always refer to the relevant owner's manual for full details.



! DO NOT connect equipment to both the front and rear ⊖3 terminals at the same time.

If you connect mono sound equipment to ***Input 3***, connect the audio output of the equipment to the L/Mono socket on the TV.

To select the front Inputs, press the ⊖ button until the display shows ***EXT3*** or ***EXT3S*** as described on the previous page.
Before connecting any external equipment, turn off all main power switches.

Please note: Inserting the headphone jack will mute the sound from all speakers.

Front controls

Whilst all the necessary adjustments and controls for your new TV are made using the remote control, the buttons on the front of the TV may be used for some functions...

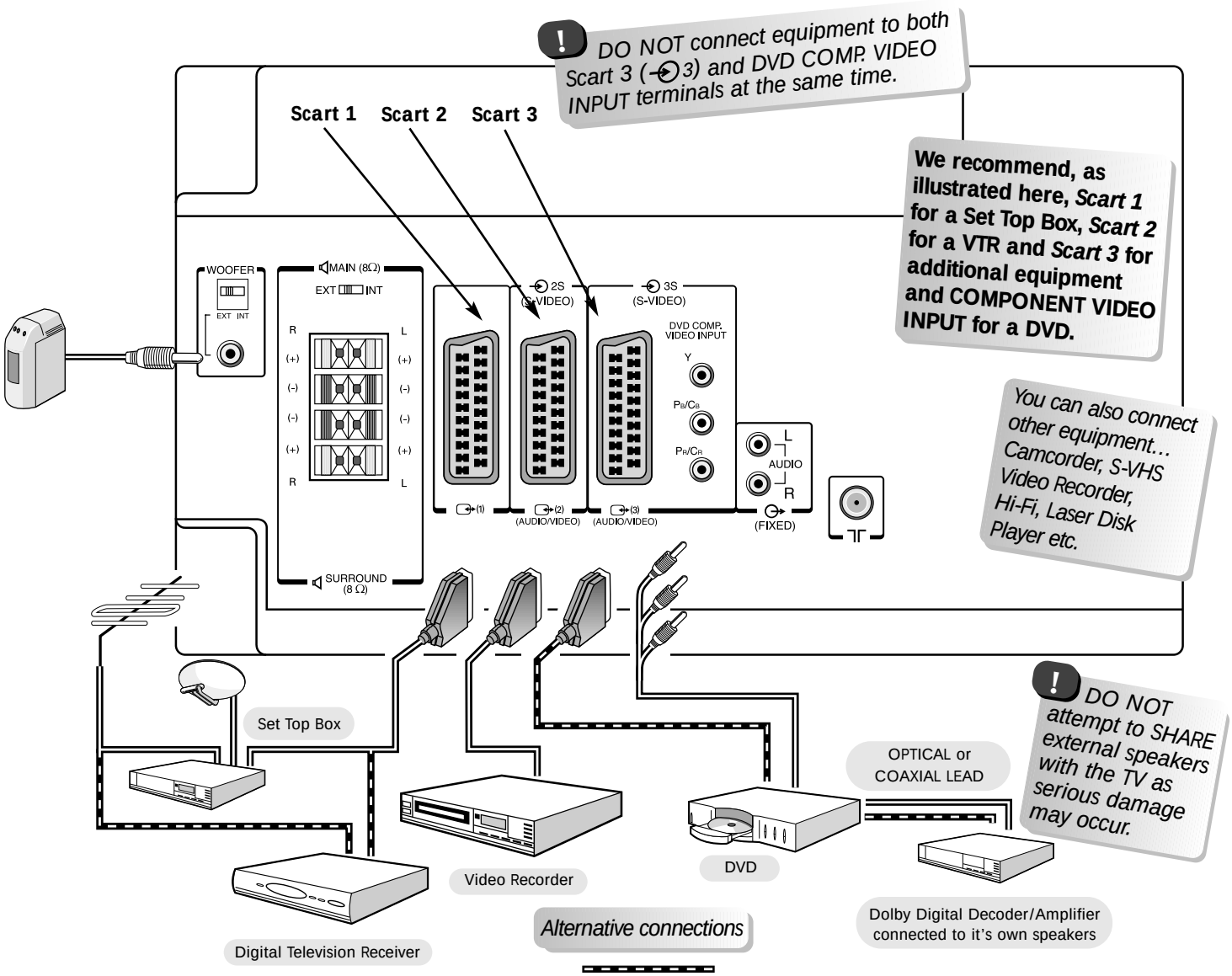
For example, to *alter the volume* press the — ◿ + buttons,

and *to alter the programme position* press the ▼Ⓟ▲ buttons...

...press the **MENU** button and control the sound and picture features with the ✚ ▬ and ▼Ⓟ▲ buttons.

Use **EXIT** to cancel the displays.

Back connections


! DO NOT connect equipment to both Scart 3 (3) and DVD COMP. VIDEO INPUT terminals at the same time.
Scart 1
Scart 2
Scart 3
We recommend, as illustrated here, Scart 1 for a Set Top Box, Scart 2 for a VTR and Scart 3 for additional equipment and COMPONENT VIDEO INPUT for a DVD.
You can also connect other equipment… Camcorder, S-VHS Video Recorder, Hi-Fi, Laser Disk Player etc.
WOOFER
EXT INT
MAIN (8Ω)
EXT INT
SURROUND (8 Ω)
2S (S-VIDEO)
3S (S-VIDEO)
DVD COMP. VIDEO INPUT
Y
PB/CB
PR/CR
AUDIO
(FIXED)
(AUDIO/VIDEO)
(AUDIO/VIDEO)
! DO NOT attempt to SHARE external speakers with the TV as serious damage may occur.
Set Top Box
OPTICAL or COAXIAL LEAD
Video Recorder
DVD
Digital Television Receiver
Alternative connections
Dolby Digital Decoder/Amplifier connected to it's own speakers

On the back of the TV are 3 Scart sockets, and a selection of phono sockets, all of which will enable you to connect a variety of equipment.

If connecting S-VIDEO equipment, set the **INPUT** for ***EXT2*** or ***EXT3*** accordingly. *See page 21*.

In addition there is a fixed external audio output which enables the connection to a suitable Hi-Fi unit.

There is also a phono socket to enable an active Super Woofer to be connected. **If you connect an external Super Woofer the switch has to be in the EXT position.**

Before connecting any external equipment, turn off all main power switches.

If your TV automatically switches over to monitor the connected equipment you can return to normal TV simply by pressing the desired programme position button.

To recall the connected equipment, press the ⊖ button repeatedly to select between ***EXT1***, ***EXT2*** and ***EXT3***.

For example:

To view a video recorder press the ⊖ button repeatedly to select ***EXT1***, ***EXT2***, ***EXT3***.

To return to normal TV press one of the numbered buttons on the remote control.

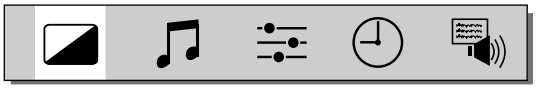
The on-screen Menus

Press the **MENU** button on the remote control to see your top menu bar. This white menu bar will show five different topics shown in symbols. As you select each symbol by pressing the ❮ or ❯ button, it's respective options will appear below. To use the options press the ❯ button on the remote control to move you down through them.

Using the Menus

The functions of each menu are described in detail throughout this Manual.

The PICTURE Menu

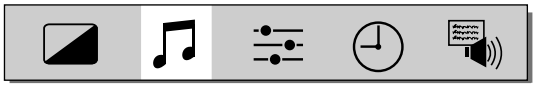


PICTURE

Contrast	50
Brightness	50
Colour	50
Tint	00
Sharpness	00
NR	ON

EXIT : To exit

The SOUND Menu



SOUND

Bass	00
Treble	00
Balance	00

EXIT : To exit

The SET UP Menu

When watching a TV broadcast...

SET UP

Auto tune	
Manual tune	
Programme swap	
Manual fine tuning	
Programme skip	OFF

EXIT : To exit

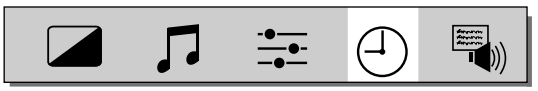
When watching an external source...

SET UP

Colour	AUTO

EXIT : To exit

The TIMER Menu

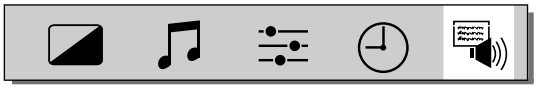


TIMER

Off timer	00:00
On timer	00:00 P01

0-9 : To set
EXIT : To exit

The FEATURE Menu



FEATURE MENU

AV connection	
Picture size/position	
Teletext	
Surround set up	
Language	ENGLISH
Panel lock	OFF
WSS	ON

Press the ❯ button to access the second part of the FEATURE MENU

Blue screen	ON

EXIT : To exit

Toshiba customer helpline • 0115 976 6958 •

Questions and Answers...

...For quick reference to topics, see the INDEX at the back of this manual.

If you experience what seem like problems operating your TV, we recommend you read through these simple checks.

Q *Why is there no sound or picture?*

A Check that the mains switch is on and check all the connections. Press the Standby button ⏻ on the remote control to make sure that the TV is not in Standby mode.

Q *Why are there coloured patches on the screen?*

A These are often caused by magnetic field interference. Turn off the TV by the ON/OFF button on the front of the TV for ten minutes and then turn it on again. If there are external speakers, reposition them away from the TV before turning the TV off.

Q *I have a picture, but why have I no sound?*

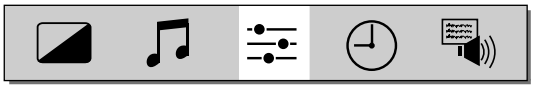
A Press the volume button **+** ◿ **–** or the sound mute 🔇 button.

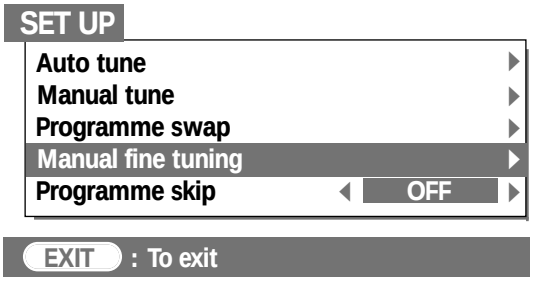
Q *Can anything else cause a poor picture?*

A Yes, interference or a weak signal. Try a different TV station to check.

Manual fine tuning may help:

1 Select ***Manual fine tuning*** from the **SET UP** menu.





2 With the ❮ or ❯ button adjust to optimise the picture.

Q *Why can't I see the video tape I am playing?*

A Make sure you have connected the VTR to the TV using a ***Scart lead*** and then select the correct input using the ⇥ button.

Q *Why is the video recorder picture in black and white?*

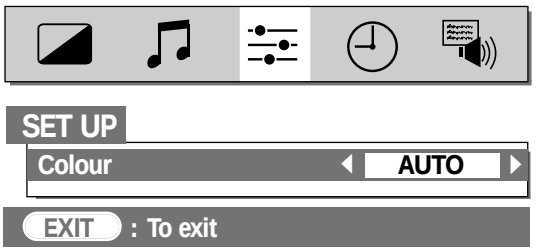
A The ***input*** socket maybe set to **S-VIDEO** in the **AV CONNECTION** menu.

Q *Why is the video picture good but there is no sound?*

A …Check Scart lead connection.

Q *Why are the colours wrong when I play an NTSC source?*

A Connect the source via a Scart lead and play. Select the **SET UP** menu.



1 Set the Colour to **AUTO** and exit.

2 Go to the **PICTURE** menu and adjust the tint.

Q *Why am I having problems with teletext?*

A Good performance of text depends on a good strong broadcast signal. This normally requires a roof or loft aerial. If the text is unreadable or garbled, check your aerial. Go to the *main index* page of the teletext service and look for the *User Guide*. This will explain the basic operation of teletext in some detail. If you need further information on how to use text *see the teletext section.*

Questions and Answers... continued

Q *Why don't the controls on the front of the TV work?*

A Check that ***Panel lock*** is not **ON** in the **FEATURE MENU**.

Q *Why doesn't the remote control work?*

A Check that the batteries aren't dead and that they are inserted correctly.

Q *Why is there no Dolby Surround?*

A If you are unable to obtain surround sound effects from the rear speakers whilst playing a Dolby Surround video tape, check that the video recorder is a stereo unit and is connected by a Scart lead.
Then check the ***Surround set up*** in the **FEATURE MENU**.

Q *Why is there no sound from the external left and right speakers?*

A …Check the speaker switch on the back of the set has been set to **EXT**.

Q *Why doesn't my External Super Woofer work?*

A Check the Super Woofer switch on the back of the TV is positioned to ***EXT***. The external Super Woofer must be an active type, i.e. incorporate its own amplifier and need its own power source.

Cleaning the screen and cabinet...

*After turning off the power, clean the screen and cabinet with a soft, dry cloth. We recommend that you **do not** use any proprietary polishes or solvents on the screen or cabinet as this may cause damage.*

Disposal...

When the set reaches the end of its useful life please dispose of it in accordance with Local Government Regulations or at a recycling centre.

For your own reference...

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Specifications and accessories

Broadcast system/channels
PAL-I UHF UK21-UK69

Programme Positions 100

Stereo Dolby Pro Logic/Nicam

Video Input PAL, NTSC 3.58/4.43

External connections

EXT1	Input	21-pin Scart	RGB, A/V
EXT2	Input/Output	21-pin Scart	A/V, S-video, Selectable output
EXT3	Input (back)	21-pin Scart	A/V
		Phono jacks	Y, P_B/C_B, P_R/C_R
	Input (front)	4-pin	S-video
		Phono jack	Video
		Phono jacks	Audio L + R
Fixed Audio Output		Phono jacks	Audio L + R
Output to Active Super Woofer		Phono jack	

Visible Screen Size 28Z07B 66cm
32Z17B 76cm

Display 16:9 aspect ratio

Sound output (at 10% distortion) Main 10W + 10W rms
Centre 10W
Surround 5W + 5W

Power consumption 28Z07B 125 Watts
32Z17B 135 Watts

Dimensions 28Z07B 827mm (W) 521mm (H) 528mm (D)
32Z17B 919mm (W) 568mm (H) 526mm (D)

Weight 28Z07B 42kg (approx.)
32Z17B 57kg (approx.)

Headphone Socket 3.5mm stereo

Accessories Remote control
2 batteries (R03 or AAA)
2 Surround speakers

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Toshiba Information Systems (U.K.) Ltd.
Consumer Products Division
European Service Centre,
Admiralty Way, Camberley,
Surrey, GU15 3DT England

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